

Receiving Report

Date: 10/6/19

Batch No: 1114968

Supplier: MEFA SOLUTION

Dart P/O: 12026

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 106621 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

[Signature]

Production/Admin:

Date 10/6/22

Received/Costing

Initial CL

Location _____

Purchase Order Receipt Listing

Page 1 of 2

June 22, 2010 12:46:40 PM

All amounts are calculated in domestic currency.

All Vendors PO ID po12006 Receipt Dates from 6/22/10 to 6/22/10 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-MET002	Metaux Solutions								
PO12006	1		M2024T3S.050 sf		6/08/10	6/22/10	96.0000	\$8.54	0.0000	0	\$820.00
CAD	No		2024-T3 .050 sheet sf		96.0000	LAVO01		\$820.00	0.0000	0	
			114968								
	2		M303B0.750X1.500 f		6/11/10	6/22/10	24.0000	\$32.40	0.0000	0	\$777.60
	No		303 BAR .750" X f		24.0000	LAVO01		\$777.60	0.0000	0	
			1.500"								
			114968								
	3		M304B0.625X3.000 f		6/08/10	6/22/10	12.0791	\$35.60	0.0000	0	\$430.02
	No		304 BAR .625 X 3.00 f		12.0000	LAVO01		\$430.02	0.0000	0	
			114968								
	4		M303R0.187 f		6/08/10	6/22/10	24.0000	\$0.60	0.0000	0	\$14.40
	No		303 Round Bar f		24.0000	LAVO01		\$14.40	0.0000	0	
			0.187"								
			114968								
	5		M6061T6B0.750X00. f		6/08/10	6/22/10	12.0000	\$1.90	0.0000	0	\$22.80
	No		750								
			6061-T6 Bar .750 x f		12.0000	LAVO01		\$22.80	0.0000	0	
			.750								
			114968								
	6		M6061T6B0.750X01. f		6/08/10	6/22/10	20.0000	\$4.50	0.0000	0	\$90.00
			500								
	No		6061-T6 Bar .750 X f		12.0000	LAVO01		\$90.00	0.0000	0	
			1.50								
			114968								
	7		M6061T6B0.750X00. f		6/08/10	6/22/10	20.0000	\$0.90	0.0000	0	\$18.00
			250								
	No		6061-T6 Bar .750 x f		20.0000	LAVO01		\$18.00	0.0000	0	
			.250								
			114968								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
------------------------------------	-----------------------------	------------	--	-----------------------	-------------------------------	---------------------------	-------------------------	------------------------------	--	-------------------------------	----------

Total Received Quantity:	208.0791
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$2,172.82
Total Balance Due Quantity:	0.0000

Shipping Order

16/06/2010

METAUX SOLUTIONS INC.
2108, 32E AVENUE
LACHINE, QUEBEC
H8T 3H7

Tel.: 514 633-8010

Order : 67180
Reference : 12006
Bid : 6834
Ship : NOTRE CAMION / OUR TRUCK

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
AS050481442024	ALU SHEE .050X48"X144" 2024 T3 2 sheets 48" x 144" (96 sq ft) HT; 465912A4	2	2	0
SF341123	303 FLAT BAR .750" X 1.5" 2 BARS X 12' HT; E212478	24	24	0
SF5834	304 FLA .625" X 3.00" 1 X 12.95' HT; 818900970	12.95	12.95	0
SR3163	303 ROU .187 DIA 2 X 12' HT; 16731	24	24	0
ASQ34	ALU SQU .750 6061-T6 1 X 12' HT; S-2566	12	12	0
AF34112	ALU FLA .750 X 1.500 6061-T6 2 X 10' HT; C0786 263	20	20	0
AF1434	AL FLAT 1/4" X 3/4" 6061-T6 3 X 10' HT; HK061:083	30	30	0

MILL TESTS POUR CHAQUE ITEMS

*** Continued on Next Page ***

Shipping Order

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H8T 3H7

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1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel. : 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Delivered</i>	<i>B/O Qty</i>
	HT # SUR LE P/S SVP			
	SHIP TST COLLECT #222212			

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO12006

Purchase Order Date 6/03/10

PO Print Date 6/03/10

Page Number 1 of 2

Order From :

VC-MET002

METAUX SOLUTIONS
1320 C, VOLTA
BOUCHERVILLE, QC J4B 6G6
CA

REVISED

Contact Name

Vendor Phone 800 558 8858

Vendor Fax 514 633 8044

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M2024T3S.050	2024-T3 .050 sheet/	6/08/10 Yes	✓ 96.00 sf	TST ground	\$8.5417	\$820.00
		Special Inst: MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A- 250/4 OR AMS 4037 OR ASTM B209					
2	M303B0.750X1.500	303 BAR .750" X 1.500" ✓	6/11/10 Yes	✓ 24.00 f	TST ground	\$32.4000	\$777.60
		Special Inst: MATERIAL: AISI 303 NOT SS BAR AS PER A582 NOTE: AISI 304/316 NOT ACCEPTABLE					
3	M304B0.625X3.000	304 BAR .625 X 3.00 ✓	6/08/10 Yes	✓ 12.00 f	TST ground	\$35.6000	\$427.20
		Special Inst: MATERIAL: MATERIAL: AISI 304/316 SS BAR AS PER ASTM A276 NOTE: 303 NOT ACCEPTABLE					

6/03/10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO12006

Purchase Order Date 6/03/10

PO Print Date 6/03/10

Page Number 2 of 2

Order From :

VC-MET002

METALUX SOLUTIONS
1320 C, VOLTA
BOUCHERVILLE, QC J4B 6G6
CA

Contact Name
Vendor Phone 800 558 8858
Vendor Fax 514 633 8044
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB

4	M303R0.187	303 Round Bar 0.187" ✓	6/08/10 Yes	✓	24.00 f	TST ground	\$0.6000	\$14.40
		<i>GOOD</i> Special Inst: MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE						
5	M6061T6B0.750X00.750	6061-T6 Bar .750 x .750 ✓	6/08/10 Yes	✓	12.00 f	TST ground	\$1.9000	\$22.80
		<i>GOOD</i> Special Inst: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A- 225/8 OR PER 4117/4128 4115/4116 OR QQ-A-200/8 OR AMS- QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221						
6	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50 ✓	6/08/10 Yes	✓	12.00 f	TST ground	\$4.5000	\$54.00
		<i>GOOD</i> Special Inst: AS ABOVE						
7	M6061T6B0.750X00.250	6061-T6 Bar .750 x .250 ✓	6/08/10 Yes	✓	30.00 f	TST ground	\$0.9000	\$27.00
		Special Inst: AS ABOVE						

PO Total:

\$2,143.00

1/8" 3/8" 3/4" Bar.
= .325 x .750

Change Nbr: 2

Change Date: 6/03/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

VIRAJ PROFILES LIMITED

10 IMPERIAL CHAMBERS, FIRST FLOOR,
WILSON ROAD, BALLARD ESTATE,
MUMBAI 400038 INDIA

INSPECTION CERTIFICATE**CUSTOMER :**

ORDER NO.
075646-AD1

PACKING LIST NO.
IMP/101296

INSPECTION NO
IMP/101296/5

DATE
15/11/2008

BUNDLE NO.
2035261

GRADE
T-303

DESCRIPTION :

STAINLESS STEEL ROUND BAR L/C NO.: I700372 DT.: 29/01/09

S 10/6/18

COLD DRAWN POLISHED

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
3/16	ROUND	ASTM A484	12' R/L	1011	1153

CHEMICAL ANALYSIS

HEAT NO.		16731								
C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Co
0.052	1.99	0.40	0.306	0.038	8.48	17.20	0.33	0.48	0.047	0.12

TEST RESULT

.2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
95	111	41	57	221	7

Specification :

MATERIAL CONFIRMS TO ASTM A581-95B COND A, ASTM A 582- 95B COND A, AMS 5640R TYPE I, EXCEPT MARKING, QQS-764B COND A EXCEPT MARKING, UNS-S-30300. CERTIFIED AS PER EN 10204 3.1

Remarks :

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD O MELT SOURCE: AOD, MACRO: GOOD, MICRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1hr/inch, WATER QUENCHED, COUNTRY OF ORIGIN INDIA

We hereby certified that the material described above has been tested and complies with the terms of order/contract.

WORKS-INSPECTOR

M 021895

KAISER ALUMINUM
MATERIAL CERTIFICATION

PAGE 1

KAISER ALUMINUM
CANADA LIMITED
3021 GORE ROAD
LONDON ON N5V 5A9
519-457-3610 FAX 519-457-3615

SOLD TO

PURCHASE ORDER

03/10/10
DATE PRINTED

SPIRIT-358394
CUSTOMER PART NUMBER

.750 X 1.500 SC RECT BAR
DESCRIPTION

736382-006
RELEASE-ITEM

C0786 262
LOT

6061-T6511
ALLOY/TEMPER

R013495

MECHANICAL PROPERTY RESULTS

REFERENCE	SAMPLE#	UTS(KSI)	YTS(KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
C0786 262	0001 1	43.7	38.6	12.5	RE 97	N/A	N/A

CHEMICAL COMPOSITION (WT%), ALUMINUM REMAINDER

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot	Others
6061 LIMITS														
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15	
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA			

Applicable Requirements:

ASTM-B221-08-STENCILED
ASME-SB221 1998 SECT II
AMS-QQ-A-200/8 UNS#96061

(T6511 also conforms to T6-not
applicable to other tempers)

Kaiser Aluminum Canada Limited ('Kaiser')
hereby certifies that metal shipped under
this order has been inspected and tested
and found in conformance with the applicable
specifications forming a part of the descrip-
tion set forth in Kaiser's sales acknowledge-
ment form. Any warranty is limited to that
shown on Kaiser's general terms & conditions
of sale. Test reports are on file, subject
to examination.

Bill Brennan
Technical Manager

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA CANADA LTD
8724 HOLTGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Usine productrice

Avviso di Spedizione: D-VI09017778
Lieferschein/Packing list/B.L.

Ordine nr: 908002360 Stock - Canada
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Refining process/Mode d'elaboration

Certificato nr: MEST777902/2009/
Prüfung/Test/Essai

Conferma ordine nr: EI09004469
Werkz/Our Order/Rol nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sign de l'usine productrice



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'assesseur



Specifiche:

Anforderungen / Requirements / Exigences

VAL CANADA 2 304/304L A
ASME SA182 2007 S30400/03 0
ASME SA479 2007 S30400/03 3
ASTM A262 2002A PRACTICE E
ASTM A320 2008 B8
NACE MR0175* 2003 S30400/03 A 5
(0) SEC.II PT.A 2007 EDITION ADD. 2008a
(1) SEC.II PT.A 2007 EDITION ADD. 2008a
(3) SEC.II PT.A 2007 EDITION ADD. 2008a
(5) * ISO 15156-3

AMS 5639 H S30400
ASME SA193 2007 B8 1
ASTM A182 2009 S30400/03 4
ASTM A276 2008A S30400/03
ASTM A479 2008 S30400/03
QQ-S-763 F 304/304L

AMS 5647 H S30403
ASME SA320 2007 B8 (2)
ASTM A193 2008B B8
ASTM A314 2008 S30400/03
MIL-S-862 B/1 304/304L

0Chemical analysis only.
2SEC.II PT.A 2007 EDITION ADD. 2008a
4Chemical analysis only.

Qualità: 304/304L
Werkstoff/Grade/Numéro

Marca: AISI

Markenbezeichnung/Brand/Numéro

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Description du produit	Dimensioni - In Abmessungen Dimensions Dimensions	Tolleranza Tolleranz Allowance Tolérance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0010	Flat	3,0000 x 0,6250	484-06B	144 / 159	248493		3.574	818900970

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind i. d. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spektroskopisch durchgeführt
Antimixing testing performed: OK
Contrôle antimesclage fait: r.a.s.

Controllo visivo e dimensionale: soddisfatte le esigenze:
Bosichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks:satisfactory
Contrôle visuel et dimensions: satisfaisant

TEST ALLO STATO DI FORNITURA										
Test on delivery condition Prüfung auf lieferbarem produkt test à l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probestab Specimen/Probestab Leg. diam. Spec. Brace Diam. Dicke Weld Diam. Thickness Leg. diam. coils mm	°F	Posiz. Staggio Position Lage mm	Snervamento Streckgrenze Yield Stress Limite elastico Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite elastico	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureza HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min		30	-	75 115	40	50	-	140 223
A	12,5	68	L	47		90	59	68		180

TEST	min	max
A Grain size for ASTM E112		5

1) L=longitudinale/längs, T=transversale/quer, O=Tangenziale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	0,040	0,030	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %			
248493	0,027	0,49	1,70	18,22	0,62	0,51	8,16	0,100	0,030	0,024	0,083			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 0.5 h/water.
Micro and macro etch test: OK
Intergranular corrosion test per ASTM A262 pract. E: ok.
Material is DFARS Compliant

Vicenza, 01/09/09
VCO008
(Mod. MCER)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

2010375 - 248493

C7459

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 01

Certification Date
15-JUN-2010

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T278489

28562-JF
PART NUMBER/NUMÉRO DE PIÈCE
511224

SOLD TO: METAUX SOLUTIONS INC.
VENDU À: 9060-0388 QUEBEC INC.
1320 VOLTA
BOUCHERVILLE QC J4B 6G6

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (MONTREAL)
2108 32 IEME AVENUE
LACHINE QC H8T 3H7

Description: 303 CD ANN BAR ASTM A582

3/4 X 1-1/2 FLAT X 12' R/L

HEAT: E212478

ITEM: 511224

Line Total: 93 LB

Specifications:
AMS 5640 TYPE 1

ASTM A582 M

CHEMICAL ANALYSIS

C	SI	MN	P	S	NI	CR	MO
0.059	0.61	1.7	0.032	0.269	8.56	17.71	0.35
N	CU	CO					
0.022	0.63	0.1					

RCPT: R149058

COUNTRY OF ORIGIN : SPAIN

MECHANICAL PROPERTIES

	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
DESCRIPTION	KSI	KSI	IN 02 IN	IN AREA	BHN
	56.0	98.0	46.0	55.0	168

COMMENTS

MELTED IN SPAIN
MFG IN SWITZERLAND

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOSEE DUBE

SHIP TO:


**KAISER
ALUMINUM**

 Trentwood Works - Spokane, WA 99215
 Phone: (800) 367-2586

CERTIFIED TEST REPORT

 Serial Number
 4187433

SOLD TO:



CUSTOMER PO NUMBER: C62090		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 101750/1	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1094961	LINE ITEM: 5	SHIP DATE: 11-MAR-2010	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet	
WEIGHT SHIPPED: 3512 LB	QUANTITY: 100 PCS EST.	B/L NUMBER: 2026396	GUAGE: 0.0500 IN	DIAMETER/WIDTH: 48.000 IN		LENGTH: 144.000 IN	

Certified Specifications

 AMS 4037/RevN
 CMMP 019/RevD

 AMS-QQ-A-250/4/RevA
 CMMP 025/RevS

ASTM B 209/Rev07

Test Code: 1504

Test Results

Lot: 465912A4 Cast 453

Drop 71

Ingot 3

 (ASTM E8/B557)
 (EN 2002-1)

 Tensile: Temper
 T3

 Dir / # Tests
 LT / 2 (Min:Max)

 Ultimate KSI (MPA)
 68.6 : 69.0 ✓
 (473 : 476)

 Yield KSI (MPA)
 45.9 : 46.2 ✓
 (316 : 319)

 Elongation %
 17.2 : 19.3 ✓

(ASTM E1251)

 Chemistry:
 Actual

SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
0.07 ✓	0.20 ✓	4.5 ✓	0.55 ✓	1.4 ✓	0.01 ✓	0.11 ✓	0.02 ✓	0.01 ✓	0.01 ✓	TOT 0.03 ✓

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024 MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

 2024-T351 plate 3.001-4.000" thick, if ultrasonically
 inspected, meets requirements of CMMP025 per SDR
 CMMP025-KaiserT-3.



MILL TEST REPORT

CUSTOMER:



SAMPLE (S) OF ALUMINUM

DIE NO.

S-2588

R121492

CUSTOMER ORDER NO.:

C62388

CUSTOMER PART NO:

V864001

DESCRIPTION

3/4" SQ. BAR

AL. ALLOY & TEMPER

6061/T6511

EXTRUDEX ORDER NO.

121925-11-A.11

SPECIFICATION

ASTM B221

SILICON %

0.58

IRON %

0.22

COPPER %

0.18

MANGANESE %

0.08

MAGNESIUM %

0.81

CHROMIUM %

0.05

ZINC %

0.01

TITANIUM %

0.02

ALUMINUM %

REMAINDER

ALLOY TYPE %

6061

ALLOY CAST NO.

9760

YIELD STRENGTH (IN ksi)

37.8

TENSILE STRENGTH (IN ksi)

41.4

ELONGATION % IN 2"

14.5

HARDNESS (ROCKWELL 'F')

87.3

87.5

87.7

LUN CHEN
(LAB. TECH.)
APR-28-10



DATE:

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
14020 S. COIL PLUS DR UNIT 100
PLAINFIELD, IL 60544

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

Best in Class

CUSTOMER PO NUMBER: C62157-9		CUSTOMER PART NUMBER: V836932		PRODUCT DESCRIPTION: 250 X .750 SC RECT BAR	
KAISER ORDER NUMBER: 9053640	LINE ITEM: 009	SHIP DATE: 03/23/2010	KAISER LOT NUMBER: HK061 083	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1089.000 LB	QUANTITY: 247.000 PCS	B/L NUMBER: 957724	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 20.000 FT
SHIP TO: 			SOLD TO: 		

Actual Physical Properties

R055384

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
XTR092061	0001	1	47.0	39.7	15.0	WB 16	N/A	N/A
XTR092061	0001	2	46.7	39.8	15.0	WB 16	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA		

Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Tom G. Small, Jr., QA Manager

T.G.S.

Plant Serial: 00285136

Kaiser Order Number: 9053640

Line Item: 009